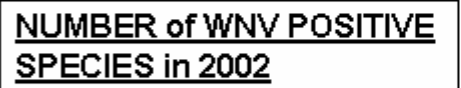


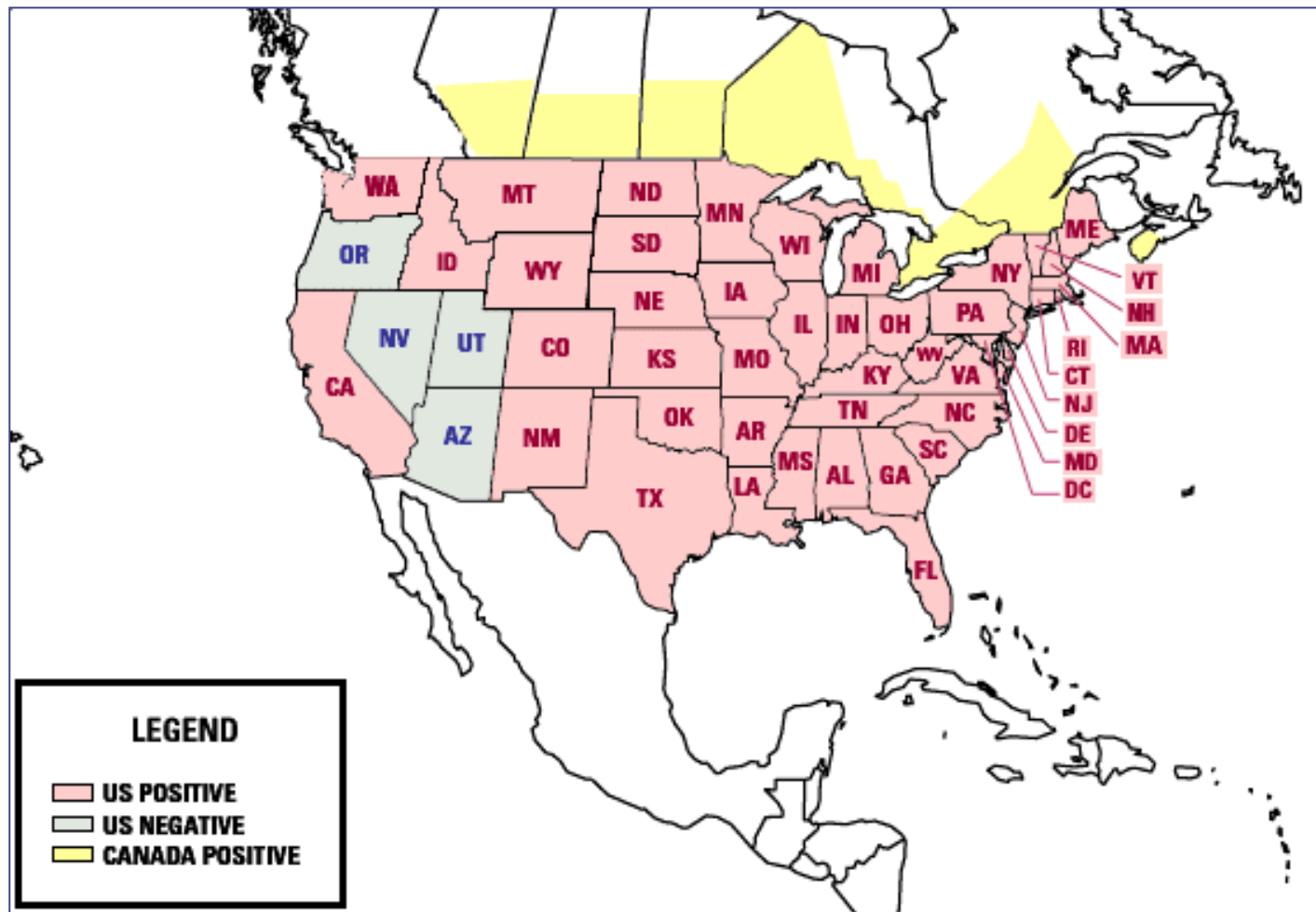
West Nile Virus 2003 Response Plan

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Michigan Department of Community
Health



WNV Activity in the U.S. - 2002



Components of Plan

- ◆ Communications

- ◆ Surveillance

- ◆ Personal Protection

- ◆ Mosquito Control Recommendations

Communications

- ◆ Press Releases
- ◆ Website
- ◆ 2003 Conference
- ◆ Hotline
- ◆ Educational Materials

Press Releases

◆ Local or State agency generated

- proactive (generated before some event is documented)
 - ◆ mosquito season is here - avoid mosquito bites
 - ◆ personal protection
 - ◆ horse vaccine timing is important
- reactive (following a documented finding)
 - ◆ human, horse, bird, or mosquito positive
 - ◆ personal protection
 - ◆ scheduled response plans, etc...

Website

www.michigan.gov/westnilevirus

Purpose of Website

- ◆ Inter-agency site with MDCH, MDA, MDNR, MDEQ, MDIT, e-Michigan, and MSU.
- ◆ Disseminate up-to-date information on WNV surveillance data in birds, horses, humans, and mosquitoes.
- ◆ Solicit dead corvid reports and specimens for testing.

Michigan WNV Conference

- ◆ Wednesday, April 23 2003, 8:30-4:00
- ◆ Holiday Inn South
- ◆ Information about human health issues, surveillance for WNV, and mosquito control
- ◆ Q and A session
- ◆ PPT Presentations available on the website

Additional Sources of Information

- ◆ Hotline: 1-888-668-0869

Provides general information about WNV and updates on current surveillance information

- ◆ Educational materials

Pamphlets

PSA's

Surveillance



◆ Bird

◆ Human

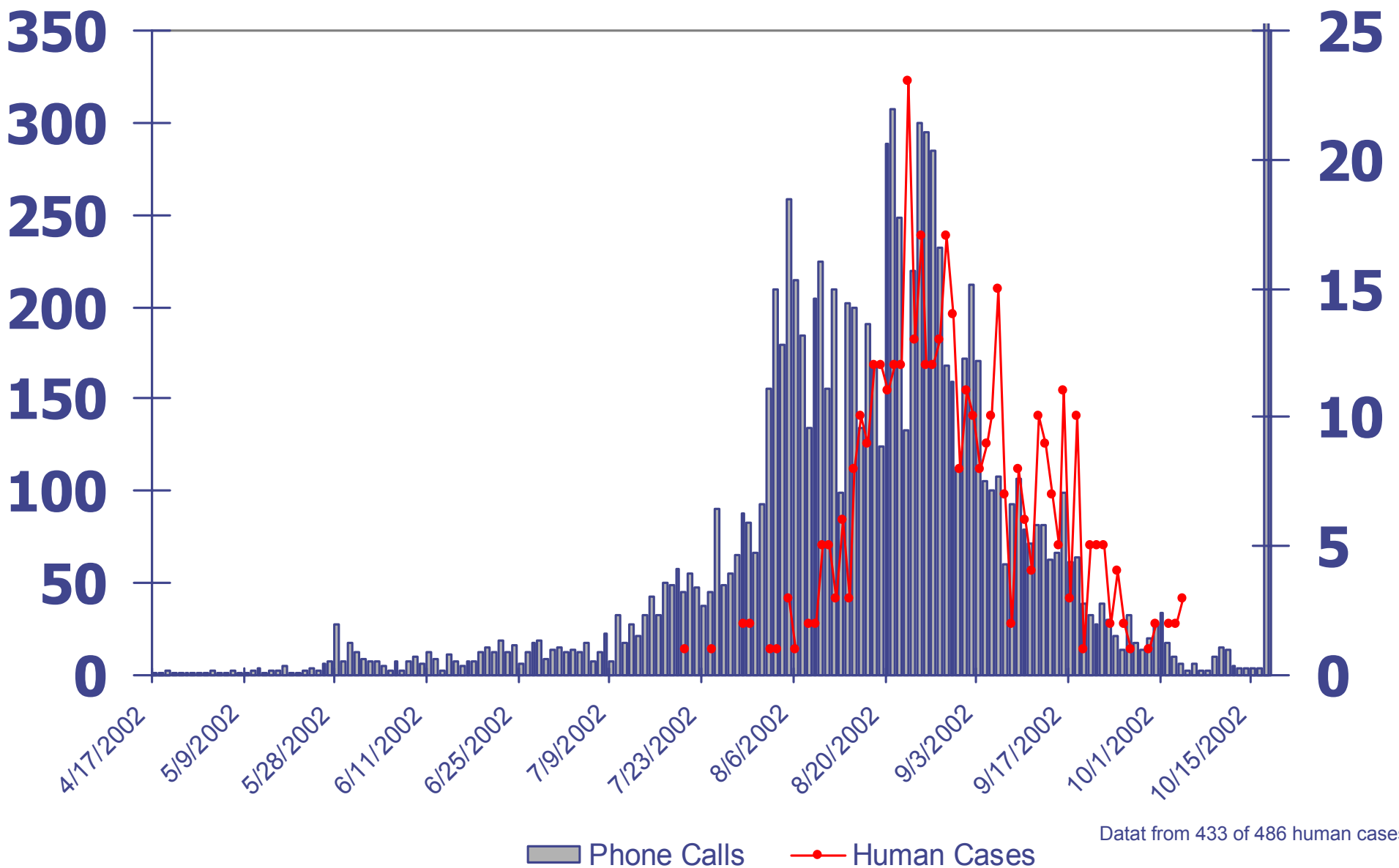
◆ Horse

◆ Mosquito

Bird Surveillance

- ◆ Web-based reporting on dead corvid sightings (crows, blue jays, and ravens)
- ◆ Community-based testing offered by [zip code](#)
- ◆ Collecting of appropriate specimens for WNV testing
- ◆ Instantly updated tables of # of birds reported per county
- ◆ Weekly updates of positive birds/zip code

Phone Reports of Dead Birds versus Human Cases in Michigan as of November 26th, 2002



USGS Study

- ◆ + bird prior to Aug 1, 2-fold increase in human risk of WNV infection
- ◆ + bird after Aug 1, negatively associated with human risk for WNV infection

Applied to Michigan Cases:

- ◆ > 96% of our human cases occurred in counties which had positive birds submitted for testing prior to Aug 1

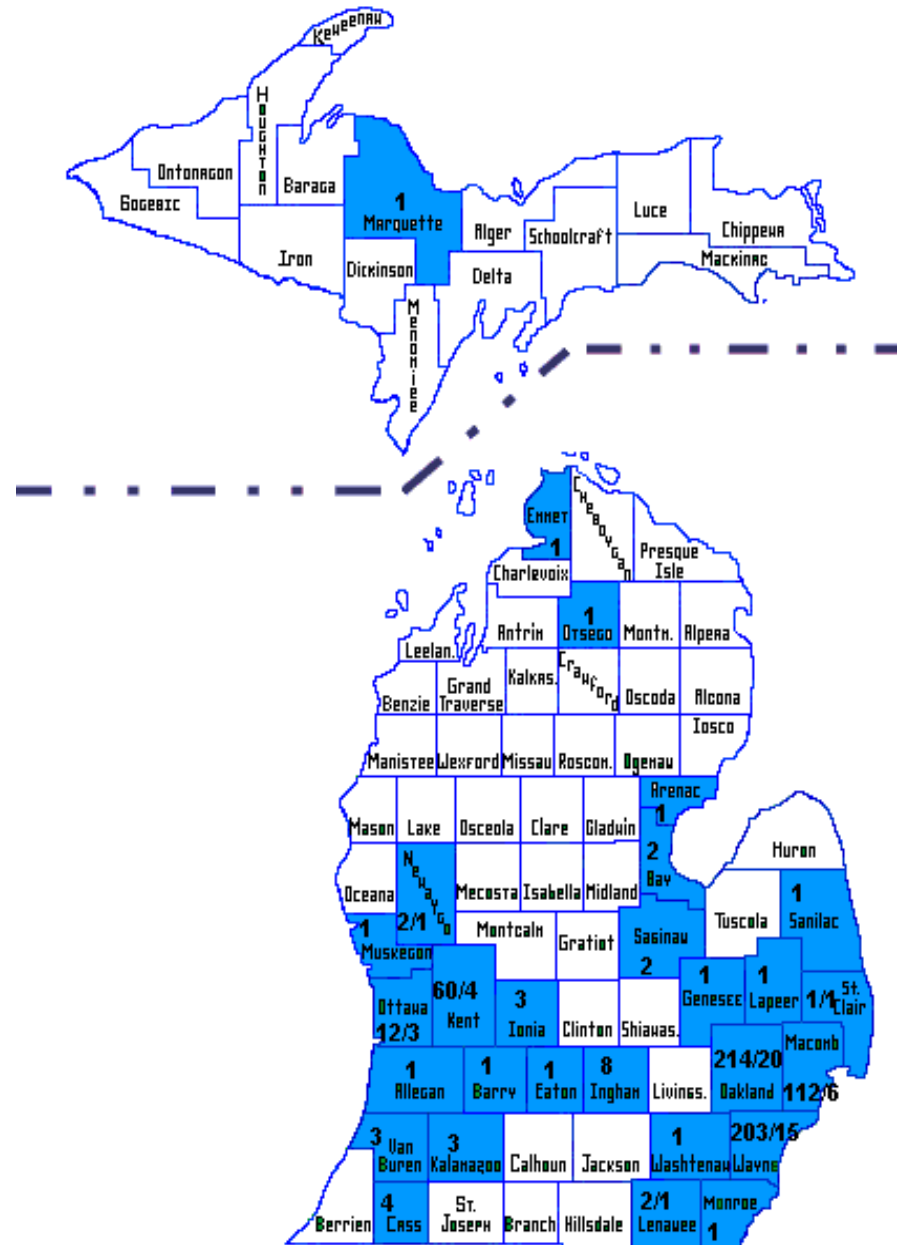
Laboratory positive WNV cases Michigan 2002*

(Includes probable and confirmed cases, all clinical syndromes)

644 cases

51 deaths

***(Total Cases/Deaths)**



Human Surveillance

- ◆ Communication with health care providers regarding testing and diagnostic criteria
- ◆ WNV is reportable condition
- ◆ Information provided on the [website](#)
- ◆ Weekly updates on positive specimens tested at MDCH Laboratories
- ◆ Pesticide Adverse Event reporting

Horse Surveillance

- ◆ Active surveillance activities with Michigan veterinarians
- ◆ MSU's DCPAH testing specimens from suspect cases
- ◆ Weekly updates on positive cases provided via the website
- ◆ Fully licensed vaccine available

Other Animal Surveillance

- ◆ MSU's DCPAH will be offering testing for suspect cases
- ◆ DNR will be collecting information about wildlife morbidity and mortality, test those animals showing neurologic signs

Mosquito Surveillance

- ◆ MDA will continue longstanding surveillance program
- ◆ MDA will provide 1 day training for LHD's around mosquito control issues, including identification of Culex sp. mosquitos and regulations for pesticide application

Personal Protection

- ◆ Individuals are responsible for reducing their exposure to mosquitoes
- ◆ Use of appropriate insect repellents according to package directions
- ◆ Source reduction around home/screening
- ◆ Avoid outdoor activity when mosquitoes most active

Mosquito Control Recommendations

- ◆ Source Reduction
- ◆ Larvaciding
- ◆ Targeted spraying
- ◆ MDNR lands
- ◆ MDEQ Easement Areas

Source Reduction



- ◆ Urban vs Suburban ecology
- ◆ Community Outreach Activities

Larvaciding

- ◆ Storm drains
- ◆ Communities should identify problem areas
- ◆ Mosquito surveillance information useful
- ◆ MDEQ registration required

Targeted Spraying

- ◆ Part of a comprehensive Integrated Pest Management Plan
- ◆ Use of current surveillance data (mosquito, bird, horse, human)
- ◆ Public outreach
- ◆ MDA regulates pesticides, and their application

MDNR and MDEQ Lands

- ◆ In general, no mosquito control is allowed in these areas
- ◆ Mosquito control will be considered in specific areas in the event it is determined, based on surveillance data and consultation with state and local health officials, that a direct threat to human health exists

MDEQ Also Regulates Mosquito Activity For:

- ◆ Scrap tire piles - "Scrap tire sites over 1,000 tires can not be a source of mosquito breeding activity or the owner of the site is in violation of the law"
- ◆ Campground - "Requires campground owners to take the necessary measures to reduce populations of mosquitoes and other insects of public health significance"

Michigan's WNV Interagency Group

Michigan Department of Community Health

- Bureau of Epidemiology
- Bureau of Laboratories

Michigan State University

- Diagnostic Center for Population and Animal Health
- Department of Microbiology and Molecular Genetics

Michigan Department of Agriculture

- Pesticide and Plant Pest Mgt. Division
- Animal Industry Division
- Laboratory Division

Michigan Department of Natural Resources

- Wildlife Diseases Division

Michigan Department of Environmental Quality

- Water Division